

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
500466.04APPLICATION NO. 10/813,204
~~not yet assigned~~

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)

Kie Y Ahn and Leonard Forbes

FILING DATE

Concurrently herewith

GROUP ART UNIT

2879
~~not yet assigned~~

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MM	AA	3,665,241	05/23/72	Spindt et al.	313	351	
	AB	3,755,704	08/28/73	Spindt et al.	313	309	
	AC	3,812,559	05/28/74	Spindt et al.	29	25	
	AD	3,954,523	05/04/76	Magdo et al.	438	409	
	AE	4,016,017	04/05/77	Aboaf et al.	438	441	
	AF	4,266,233	05/05/81	Bertotti et al.	257	271	
	AG	4,652,467	03/24/87	Brinker et al.	427	246	
	AH	4,857,161	08/15/89	Borel et al.	445	24	
	AI	4,987,101	01/22/91	Kaanta et al.	438	619	
	AJ	5,103,288	04/07/92	Dakamoto et al.	257	758	
	AK	5,142,184	8/25/92	Kane	313	309	
	AL	5,186,670	02/16/93	Doan et al.	445	24	
	AM	5,194,780	3/16/93	Meyer	315	169.3	
	AN	5,229,331	07/20/93	Doan et al.	437	228	
	AO	5,259,799	11/09/93	Doan et al.	445	24	
	AP	5,358,908	10/25/94	Reinbert et al.	438	20	
	AQ	5,372,973	12/13/94	Doan et al.	437	228	
	AR	5,430,300	07/04/95	Yue et al.	445	50	
	AS	5,458,518	10/17/95	Lee	445	24	
	AT	5,470,801	11/28/95	Kapoor et al.	438	471	
	AU	5,473,222	12/05/95	Theony et al.	315	169.1	
	AV	5,483,067	01/09/96	Fujii et al.	250	338.3	
	AW	5,529,524	06/25/96	Jones	445	24	
	AX	5,569,058	10/29/96	Gnade et al.	445	24	

EXAMINER

Manicki Parthasarathy

DATE CONSIDERED

1/21/05

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FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 500466.04	APPLICATION NO. 10/813,204 not yet assigned
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT(S) Kie Y Ahn and Leonard Forbes	
		FILING DATE Concurrently herewith	GROUP ART UNIT 2879 not yet assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
msz	AY	5,578,896	11/26/96	Huang	313	309	
	AZ	5,585,301	12/17/96	Lee et al.	437	60	
	BA	5,597,444	01/28/97	Gilton	156	643	
	BB	5,653,619	08/05/97	Cloud et al.	445	24	
	BC	5,663,608	09/02/97	Jones et al.	313	309	
	BD	5,684,356	11/04/97	Jeng et al.	445	70	
	BE	5,712,534	1/27/98	Lee et al.	315	169.3	
	BF	5,793,154	8/11/98	Itoh et al.	313	308	
	BG	5,804,910	09/08/98	Tjaden et al.	313	310	
	BH	5,853,492	12/29/98	Cathey et al.	134	3	
	BI	5,869,169	02/09/99	Jones	428	213	
	BJ	5,898,258	04/27/99	Sakai et al.	313	309	
	BK	6,028,322	02/22/00	Moradi	257	10	
	BL	6,232,705	05/15/01	Forbes et al.	313	309	
	BM	6,251,470	06/26/01	Forbes et al.	427	97	
	BN	6,255,156	07/03/01	Forbes et al.	438	235	
	BO	6,277,765 B1	08/21/01	Cheng et al.	438	773	
	BP	6,333,215 B1	12/25/01	Matsuda et al.	438	149	

FOREIGN PATENT DOCUMENTS

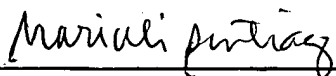
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BQ							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

msz	BR	Anderson, R.C. et al., "Porous Polycrystalline Silicon: A New Material for MEMS," <i>Journal of Microelectromechanical Systems</i> 3(1):10-18, 1994
msz	BS	Boswell, E.C. et al., "Polycrystalline Silicon Field Emitters," 8 th International Vacuum Microelectronics Conference Technical Digest, pp. 181-186, 1996

EXAMINER Mariceli Andraez	DATE CONSIDERED 1/27/05
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OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>					
My	BT	Boswell, E.C. et al., "Polycrystalline silicon field emitters," <i>J Vac Sci Technol. B</i> 14(3):1910-1913, 1996			
	BU	Chalamala, Babu R. et al., "Fed Up with Fat Tubes," <i>IEEE Spectrum</i> , pp. 42-51, April 1998			
	BV	Huang, W.N. et al., "Photoluminescence in porous sputtered polysilicon films formed by chemical etching," <i>Semicond. Sci. Technol.</i> 12:228-233, 1997			
	BW	Huang, W.N. et al., "Properties of chemically etched porous polycrystalline silicon deposited by r.f. sputtering," IEEE Hong Kong Electron Devices Meeting, pp. 21-24, 1996			
	BX	Huq, S.E. et al., "Comparative study of gated single crystal silicon and polysilicon field emitters," <i>J. Vac. Sci. Technol. B</i> 15(6):2855-2858, 1997			
	BY	Huq, S.E. et al., "Fabrication of Gated Polycrystalline Silicon Field Emitters," 9 th International Vacuum Microelectronics Conference, St. Petersburg, pp. 367-370, 1996			
	BZ	Kim, I.H. et al., "Metal FEAs on Double Layer Structure of Polycrystalline Silicon," 9 th International Vacuum Microelectronics Conference, St. Petersburg, pp. 423-426, 1996			
	CA	Kim, I.H. et al., "Fabrication of metal field emitter arrays on polycrystalline silicon," <i>J. Vac. Sci. Technol. B</i> 15(2):468-471, 1997			
	CB	Ku, T.K. et al., "Enhanced Electron Emission from Phosphorus-Doped Diamond-Clad Silicon Field Emitter Arrays," <i>IEEE Electron Device Letters</i> 17(5):208-210, 1996			
	CC	Lacher, F. et al., "Electron field emission from thin fine-grained CVD diamond films," <i>Diamond and Related Materials</i> 6:1111-1116, 1997			
	CD	Lazarouk, S. et al., "Electrical characterization of visible emitting electroluminescent Schottky diodes based on n-type porous silicon and on highly doped n-type porous polysilicon," <i>Journal of Non-Crystalline Solids</i> 198-200:973-976, 1996			
	CE	Lee, J.H. et al., "A New Fabrication Method of Silicon Field Emitter Array with Local Oxidation of Polysilicon and Chemical-Mechanical-Polishing," 9 th International Vacuum Microelectronics Conference, St. Petersburg, pp. 415-418, 1996			
	CF	Lee, K.R. et al., "Field emission behavior of (nitrogen incorporated) diamond-like carbon films," <i>Thin Solid Films</i> 290-291:171-175, 1996			
	CG	Litovchenko, V.G. et al., "Emission Properties of the Silicon Cathodes Coated with Doped Diamond-Like Carbon Films," IEEE International Conf. On Plasma Science, p. 308, Abstract 7A02, 1997			
	CH	Nunes de Carvalho, C. et al., "Improvement of the Ito-P Interface in a Si:H Solar Cells Using a Thin SiO Intermediate Layer", <i>Mat. Res. Soc. Symp. Proc.</i> , 420:861-865, 1996			
	CI	Pullen, S.E. et al., "Enhanced Field Emission from Polysilicon Emitters Using Porous Silicon," 9 th International Vacuum Microelectronics Conference, St. Petersburg, pp. 211-214, 1996			
	CJ	Stevenson, I.C. et al., "Production of SiO ₂ Films Over Large Substrate Area by Ion-Assisted Deposition of SiO with a Cold Cathode Source", <i>Soc. of Vac. Coaters, Proc. 36th Annual Tech. Conf.</i> , pp. 88-93, 1993			
	CK	Uh, H.S. et al., "Enhanced Electron Emission and Its Stability from Gated Mo-polycide Field Emitters," IEEE, pp. 713-716, 1997			
	CL	Uh, H.S. et al., "Fabrication and Characterization of Gated n+ Polycrystalline Silicon Field Emitter Arrays," 9 th International Vacuum Microelectronics Conference, St. Petersburg, pp. 419-422, 1996			
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Wstg	CM	Uh, H.S., "Process design and emission properties of gated n+ polycrystalline silicon field emitter arrays for flat-panel display applications," <i>J. Vac. Sci. Technol. B</i> 15(2):472-476, 1997
	CN	Vaudaine, P. and Meyer, R., "Microtips Fluorescent Display," technical digest of IEDM 91, pp. 197-200, 1991
	CO	Zaidi, S.Z.A. et al., "Conduction Mechanisms in Co-Evaporated Mixed Mn/SiO _x Thin Films", <i>Journal of Materials Science</i> , 32:3349-3353, 1997
EXAMINER <i>Mariali Ponting</i>		DATE CONSIDERED 1/21/05
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